

Justification for consideration of 8.756 ha area proposed under approach roads:

De-Reservation Proposal (DRP) was submitted for installation of RopeCon conveyor supported by suspension ropes and support trestles spaced up to 800 mts apart. RopeCon technology is a recent invention from the combined effort of Doppelmayr, Contitech and Doubrava. It was patented in 1999. The three companies are world leaders in their respective fields. M/s Doppelmayr Group, headquarter at Wolfurt, Austria

- Doppelmayr specialise in cable cars and ropeways;
- Contitech in conveyor belting;
- Doubrava in bulk materials handling.

The land use plan and land requirement for approach roads given by M/S Hatch Associates (P) Limited in the Detailed Project Execution Report (DPER) for development 7.0MTPA mechanized mine at Manoharpur Ore Mines, Chiria. Based on the design of M/s Doppelmayr Group.

Brief description of RopeCon conveyor

The main feature of this system is its ability to span large distances and convey material up and down inclines unachievable by conventional belt conveyors. This feature enables its installation in areas of rough terrain with a minimal footprint. This will minimise the deforestation required which in turn will reduce the environmental impact.

RopeCon conveys bulk materials continuously using a flat belt with flexible corrugated sidewalls. The belt is supported by axles and wheels sets, fastened to the top of the belt at around 4m to 5m spacing. The wheels then run on wire track ropes much the same as a cable car does. Similar to a conventional conveyor, it is driven by drive pulley in the head and/or tail station. Roof cover is supported separately by two ropes, the roof can in turn support HV power / communication cables, pipe, etc. **A separate pair of ropes supports a maintenance carriage that can run along over the conveyor.** All ropes are tied together with frames at around 6m spacing in order to stabilize them. The towers that support the ropes can be spaced as much as 800m apart, depending upon the terrain.

RopeCon is serviced from head and tail end of the conveyor and has no walkway structure alongside.

Approach roads plan for installation of conveyor was given by M/S Hatch Associates (P) Limited based on the design of M/s Doppelmayr Group headquarter at Wolfurt, Austria.

This is new kind of technology, specialized in nature and designed by group of expert's i.e Doppelmayr, Contitech and Doubrava. All these parties are outside India. Any change in approach roads layout without consulting designers may cause problems during installation of conveyor.

More over the approach roads are required for installation of Ropecon conveyor only. After installation approach roads are not required because maintainance is will be carried out through maintenance carriage that can run along over the conveyor.

After installation of conveyor, 8.7565 ha area proposed under approach roads will be planted with native saplings as per the direction of state forest department.